

2002 Base Year Emissions Inventory for the St. Louis 8-Hour Ozone Nonattainment Area

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Introduction

- Fulfills base year inventory State Implementation Plan (SIP) requirement due to EPA by June 2006
- Includes 2002 actual emissions of ozone-forming pollutants—VOC, NO_x, CO
- Includes emissions from point, area, offroad mobile, onroad mobile, and biogenic sources
- Covers St. Louis ozone nonattainment counties—Franklin, Jefferson, St. Charles, St. Louis, City of St. Louis
- Includes annual and ozone season day emissions

Introduction (Cont.)

- Foundation for Reasonable Further Progress (RFP) demonstration due June 2007
- Subset of St. Louis ozone and PM_{2.5} modeling inventory
- Product of cooperative stakeholder efforts
 - Central Regional Air Planning Association (CENRAP) regional haze planning process
 - St. Louis modeling and control strategy workgroup process

Outline of Document

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- II. Emission Statement Requirement
- III. Summary of 2002 Base Year Emissions Inventory
- IV. Point Source Emissions
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- VIII. Biogenic Emissions

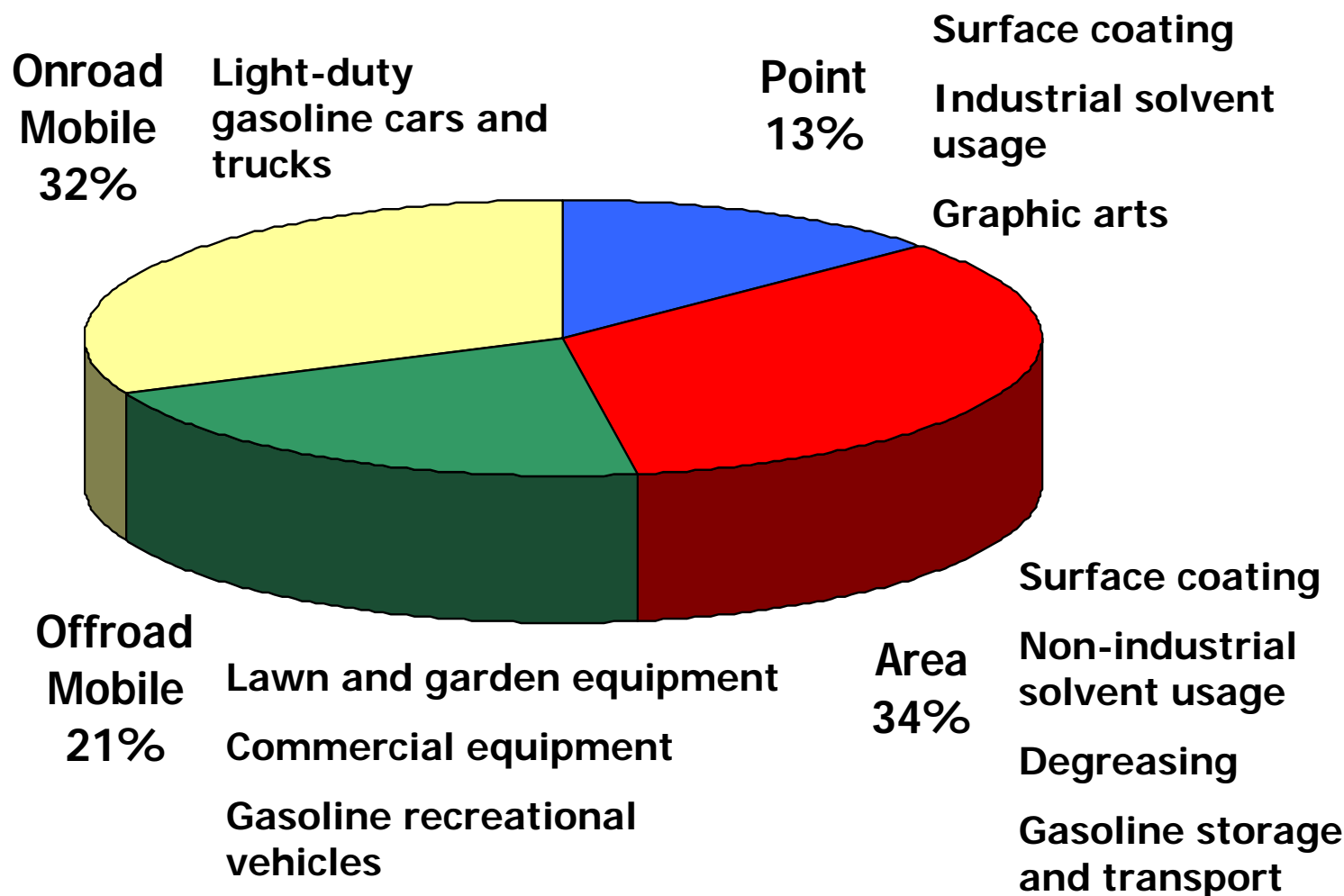
Point and Area Inventory Development

- Point emissions data obtained from 2002 Emissions Inventory Questionnaire (EIQ) process coordinated by Air Program and local air pollution agencies of St. Louis County and City of St. Louis
- Area emissions estimated by Air Program's emissions inventory unit using variety of methods
- Subsequent quality-assurance and refinement through CENRAP workgroup process

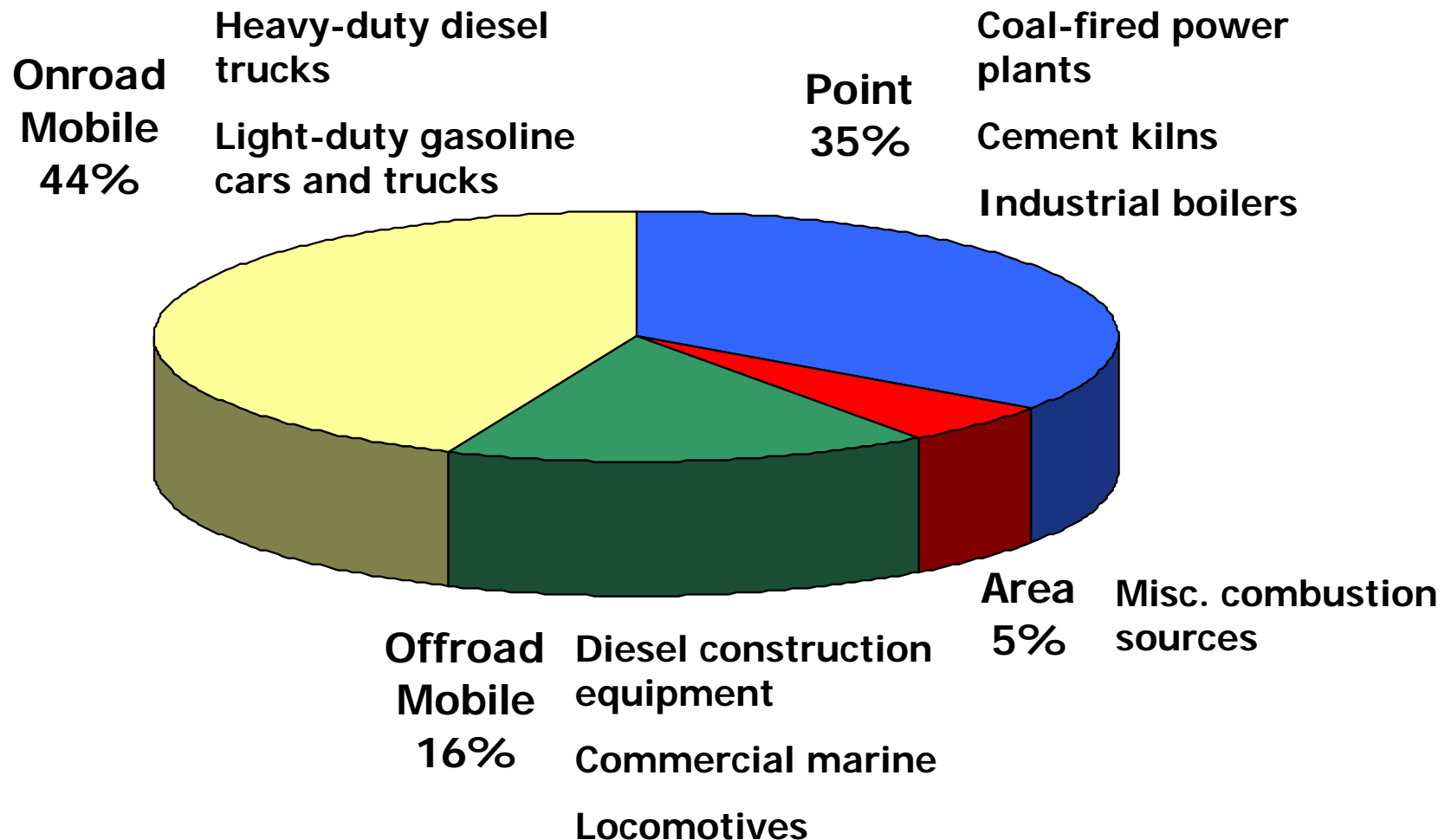
Mobile Inventory Development

- Offroad mobile inventory developed by Sonoma Technology for CENRAP using EPA's NONROAD2004 model
- Onroad mobile inventory developed by Air Program's emissions inventory unit using emission factors from EPA's Mobile 6 model and vehicle miles traveled (VMT) from East-West Gateway Coordinating Council

2002 VOC Emissions for a Typical Ozone Season Day in the St. Louis Nonattainment Area (MO) -- Total 215.7 tons/day



2002 NO_x Emissions for a Typical Ozone Season Day in the St. Louis Nonattainment Area (MO) -- Total 365.1 tons/day



Biogenic Emissions

- Emissions estimates prepared by EPA using BEIS3 model and landuse data
- Total VOC emissions from biogenic sources in St. Louis nonattainment area:
385.8 tons/day

St. Louis 8-Hour Ozone SIP

SIP Submission	Date
Base Year Emissions Inventory	June 15, 2006
Reasonably Available Control Technology (RACT)	September 15, 2006
Reasonable Further Progress (RFP) and Attainment Demonstrations	June 15, 2007